Center for Inverse Problems, Imaging and Tomography

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This center was created in 1989. The breadth of research underway at this center is devoted to solving imaging problems with diagnostic medical scanning, seismic imaging, sonar and radar. Current projects include: advanced medical ultrasound scanners, geophysical imaging for oil exploration and advanced imaging for buried hazardous waste remediation.

<u>Overview</u>		Technologies	Status	Economic Impact
Current State Contract	\$100,000	*Medical	*New ultrasound scaner under construction	*New U of U spinoff
		Ultrasound		company using
Matching Funds	\$256,924	imaging	*U. S. Navy grant	technology
Cumulative	\$791,624			(TechniScan)
		*Bottom and	*5 patents disclosed or pending	
Industry Jobs Created	29	Subbottom sonar		*New company
			*Utah Energy office contract	pending formation
Center Related Jobs	21	*Ultrasound non		
		destructive testing	*SBIR Phase II subcontract	*Medical market of \$2
Benefiting Utah Companies	2			billion
		*Geotechnical	*Remarkable imaging conducted from a	
Patents Applied	5	imaging	synthetic focusing technique	*Other markets of
				similar size
Patents Issued	5	*Optical	*Designed an NDT/E scanner for NASA	
		instrumentation	competition	*TechniScan
License Agreements	ω			negotiating venture
		*Single and	*Selected as a finalist for Department of	capital to expand
		multiphase flow	Commerce Advanced Technology Program in	operations
		measurement	1990	
		*Process control	*Significant technological breakthrough in	
			image scattering. The time has been	